Invitation for Public Comment on the List of Candidates for the EPA Science Advisory Board Chemical Assessment Advisory Committee Augmented for the Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) Assessment Review

July 22, 2016

The U.S. Environmental Protection Agency (EPA) Science Advisory Board (SAB) Staff Office announced in a *Federal Register* Notice (Volume 81, Number 53, Pages 14849-14850) published on March 18, 2016 that it was augmenting the Chemical Assessment Advisory Committee (CAAC) to review and provide independent expert advice, through the Chartered SAB, on EPA's draft *Toxicological Review of Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)*. To augment the CAAC, the SAB Staff Office sought public nominations of recognized experts with demonstrated expertise and research in one or more of the following areas, with a particular focus on RDX: Neurotoxicity; kidney/urogenital expertise[preferably with some experience with the prostate]; reproductive/developmental toxicity; general toxicology; carcinogenicity; physiologically-based pharmacokinetic (PBPK) modeling including toxicokinetic considerations; and quantitative risk assessment expertise specifically related to dose-response modeling of animal data. Attached is a List of Candidates that includes the biosketches of both current members of the CAAC and other nominees. In total, the SAB Staff Office has identified 50 candidates based on their relevant expertise and willingness to serve.

The SAB Staff Office Director will make the final decision about who will serve on the Panel based on all relevant information. This includes a review of the confidential disclosure form (EPA Form 3110-48), relevant information gathered by staff, and public comments. For the EPA SAB Staff Office, a balanced Panel is characterized by inclusion of candidates who possess the necessary domains of knowledge, the relevant scientific perspectives (which, among other factors, can be influenced by work history and affiliation), and the collective breadth of experience to adequately address the general charge. Specific criteria to be used in evaluating a candidate include: a) scientific and/or technical expertise, knowledge, and experience; b) availability and willingness to serve; c) absence of financial conflicts of interest; d) absence of appearance of a lack of impartiality; e) skills working in advisory committees and panels, and, for the panel as a whole, f) diversity of scientific expertise and viewpoints.

We hereby invite comments on the attached List of Candidates for consideration by the SAB Staff Office in the formation of this Panel. Comments should be submitted to Dr. Diana Wong, Designated Federal Officer, no later than August 12, 2016. E-mailing comments (wong.diana-M@epa.gov) is the preferred mode of receipt. Please be advised that comments received are subject to release under the Freedom of Information Act.

List of Candidates for the Chemical Assessment Advisory Committee (CAAC) Augmented for the review of EPA's draft IRIS RDX Assessment

Anderson,Henry

Wisconsin Division of Public Health

Dr. Henry A. Anderson holds positions as the State Environmental and Occupational Disease Epidemiologist, and Chief Medical Officer in the Wisconsin Division of Public Health, Department of Health Services, and adjunct professorships at the University of Wisconsin-Madison, School of Medicine and Public Health, Department of Population Health Sciences, and the University of Wisconsin Institute for Environmental Studies, Center for Human Studies. He holds a B.A. in Biology from Stanford University, and an M.D. from the University of Wisconsin-Madison. Dr. Anderson's expertise includes public health; preventive, environmental, and occupational medicine; respiratory diseases; epidemiology; human health risk assessment; and risk communication. His active research interests include: disease surveillance, childhood asthma, lead poisoning, reproductive and endocrine health hazards, drinking water contaminants, occupational and environmental respiratory disease and sport fish consumption advisory communication. Dr. Anderson served on the U.S. Environmental Protection Agency's (EPA) National Advisory Committee for Acute Exposure Guideline Levels for Hazardous Substances. He was chair of the Environmental Health Committee of the EPA Science Advisory Board, served on the chartered EPA SAB, and is past Chair of the Board of Scientific Councilors for the National Institute of Occupational Safety and Health. Dr. Anderson has served on five National Academy of Sciences Committees including Toxicity Testing for Assessment of Environmental Agents and just completed service on the Committee, Water Reuse: Potential for Expanding the Nation's Water Supply Through Reuse of Municipal Wastewater. He was a founding member of the Agency for Toxic Substances and Disease Registry Board of Scientific Councilors (1988-1992). Dr. Anderson serves on the Presidential Advisory Board on Radiation Worker Compensation. He has served on the Armed Forces Epidemiology Board and the Centers for Disease Control and Prevention (CDC)/ National Center for Environmental Health Director's Advisory Committee. Dr. Anderson is a fellow of the Collegium Ramazzini and the American Association for the Advancement of Science. He is associate editor of the American Journal of Industrial Medicine. Dr. Anderson was certified in 1977 by the American Board of Preventive Medicine with a sub-specialty in occupational and environmental medicine and in 1983 became a fellow of the American College of Epidemiology. He is a state government employee and his research has been supported by the State of Wisconsin and grants from U.S. government agencies, primarily U.S. Department of Health and Social Services/Centers for Disease Control and Prevention and the U.S. Environmental Protection Agency.

Barrett, Jeffrey

Sanofi Pharmaceuticals

Dr. Jeff Barrett is Vice President, Global Head of the Interdisciplinary Pharmacometrics Program (IPP) and Global Head of Pediatric Clinical Pharmacology at Sanofi Pharmaceuticals. He leads the modeling and simulation efforts across scientific core platforms at Sanofi -- developing, testing, and exploiting quantitative relationships to facilitate critical decisions. Jeff spent the previous 10+ years at the University of Pennsylvania where he was Professor, Pediatrics and Director, Laboratory for Applied PK/PD at the Children's Hospital of Pennsylvania (CHOP). His academic career was highlighted by sustained NIH support for pharmacometric research across numerous therapeutic areas in adult and pediatric populations. Prior to tenure at U Penn / CHOP, Jeff spent 13 years in the pharmaceutical industry, most recently as Head of Global Biopharmaceutics at Aventis. Jeff received his B.S. in Chemical Engineering from Drexel University and Ph.D. in Pharmacokinetics from University of Michigan. He is a fellow of ACCP and AAPS and the recipient of numerous honors including ACCP awards for Young Investigator (2002) and Mentorship in Clinical Pharmacology (2007) and the AAPS Award in Clinical Pharmacology and Translational Research (2011). Dr. Barrett was awarded for Exceptional Innovation and Advancing the Discipline of Pharmacometrics at the International Society for Pharmacometrics (2013). He has co-authored over 140 manuscripts, 160 abstracts and has given over 125 invited lectures on PK/PD, clinical pharmacology and pharmacometrics. He serves on the Editorial Boards of the Journal of Pharmacokinetics and Pharmacodynamics and the ASCPT Pharmacometrics & Systems Pharmacology Journal and is the co-Specialty Chief Editor of Frontiers in Obstetric and Pediatric Pharmacology.

Barton,Hugh A.

Pfizer, Inc.

Dr. Hugh A. Barton is Associate Research Fellow for Pharmacokinetics, Dynamics, and Metabolism, at Pfizer, Inc. where he is lead modeler for the Pharmacokinetics/Safety area and a member of the global Translational Research Leadership Team. He has more than 20 years experience in biological modeling for use in biologically based dose-response analyses for chemical risk assessment and translation of in vitro and in vivo nonclinical findings to humans. His analyses have formed the basis for drug registration in the US and guidance and regulatory activities of several offices within the US Environmental Protection Agency. Dr. Barton has held positions in government (US EPA), industry (Pfizer, consulting and contract organizations), and academia (adjunct professor at Boston University School of Public Health and in Toxicology at The University of North Carolina at Chapel Hill). He has served on committees for the US EPA Science Advisory Board (Perchlorate), the National Research Council (Inorganic Arsenic), and World Health Organization International Programme on Chemical Safety (PBPK Modeling). He has been as an invited peer-reviewer for Health Canada, National Institute of Environmental Health Sciences, and Toxicology Excellence for Risk Assessment and he is listed on the Joint FAO/WHO Meeting on Pesticide Residues Expert Roster. He is currently Vice President of the Risk Assessment Specialty Section of the Society of Toxicology. He received a B.S. in Life Sciences from the Massachusetts Institute of Technology, Cambridge, MA and a Ph.D. in Toxicology from the Department of Applied Biological Sciences at MIT. He is a reviewer for numerous scientific journals and serves on two editorial boards. Dr. Barton has published more than 50 articles in the scientific literature on physiologically based pharmacokinetic and pharmacodynamic (PBPK/PD) modeling and received awards from US EPA and others for that work and its applications in risk assessment. Dr. Barton’s research is funded by Pfizer, Inc.

Bosland,Maarten

University of Illinois at Chicago

Dr. Maarten C. Bosland graduated from the University of Utrecht (The Netherlands) in 1978 with a Doctoral Degree in Veterinary Science (DVSc) and received in 1989 a Doctorate Degree (PhD) in Experimental Pathology from the same University. He is a Board Certified in Laboratory Animal Pathology and Laboratory Animal Science (in The Netherlands). From 1978-1988, he was Research Scientist-Toxicologic Pathologist at TNO, Zeist, The Netherlands. From 1985-2006, he has been on the Faculty of the Department of Environmental Medicine of New York University (NYU) School of Medicine, since 2000 as Professor of Environmental Medicine and Urology (tenured). Since 2006, he has been Professor (tenured) and Director of Graduate Studies in the Department of Pathology at the University of Illinois at Chicago (UIC) College of Medicine. He has published over 165 articles and book chapters about his research, which has focused on rodent prostate pathology, prostate cancer, chemoprevention of cancer, and hormonal carcinogenesis. His current research interests include mechanisms of hormonal prostate carcinogenesis, particularly the role of estrogens and androgens, prostate cancer chemoprevention, and preclinical research and human clinical trials of chemoprevention by natural substances, in particular dietary antioxidants, soy, and soy isoflavones. He has directed a satellite animal facility and a histopathology facility at NYU and he has served on the Animal Care Committees and on Graduate Student Steering Committees at NYU and UIC. He has served on several expert panel committees on the Program of Monographs on the Evaluation of Carcinogenic Risks to Humans of the International Agency for Research on Cancer (WHO) and the US National Academy of Science. He is currently also involved in capacity building in pathology in Ghana and collaborative research on prostate cancer and anticancer, antidiabetic, and toxic properties of West African medicinal plants with investigators at universities in Nigeria and Ghana.

Boudreau,Mary

U.S. Food and Drug Administration

Dr. Mary D. Boudreau serves as a senior research toxicologist in the Division of Biochemistry within the FDA’s National Center for Toxicological Research (NCTR), where she performs fundamental and applied research activities. Dr. Boudreau received BS and MS degrees in Human Nutrition and Foods and a Ph.D. in Veterinary Medical Sciences, Toxicology from Louisiana State University and completed post-doctoral training in biochemical toxicology at the Pennington Biomedical Research Center. She serves as a principal investigator for four National Toxicology Program (NTP)-funded projects that are conducted under the auspices of FDA’s Good Laboratory Practices (GLP) and compliant with Organisation for Economic Co-operation and Development (OECD) guidelines. She plans, implements, and manages all phases of research for these projects that are focused on evaluating the biological effects of exposure to a wide variety of disparate, yet potentially toxic agents; defining the complex mechanisms that govern

their toxicity; understanding critical biological events in the expression of their toxicity; and developing methods to improve assessment of human exposure, susceptibility, and risk. The test agents may include, but are not limited to, natural and synthetic dietary supplements, natural and synthetic chemicals, nanoscale materials, and topical and ingested drugs. Dr. Boudreau is the director of the NTP/FDA Center for Phototoxicology at NCTR, and she integrates her expertise in toxicology, physiology, nutritional biochemistry, and photobiology to provide professional leadership and direction for a broad, coordinated program that focuses on critical mission-related activities and issues. Dr. Boudreau prepares scientific literature reviews, research proposals, technical reports, and collaborates with other FDA scientists, other Federal agencies, and contractors as appropriate. She has authored forty peer-reviewed journal articles and eight audited technical reports. Dr. Boudreau is a recognized expert in toxicology and photobiology, and is sought by peers and others to discuss research matters and serve in various advisory and leadership roles. These interactions include discussions with representatives from government agencies, scientific and academic societies, industry investigators, and the international scientific community. She represents the NCTR and FDA at national and international conferences as a scientific authority.

Bredfeldt,Tiffany

Texas Commission on Environmental Quality

Dr. Tiffany Bredfeldt is a Senior Toxicologist with the Toxicology Division of Texas Commission on Environmental Quality (TCEQ). She received his bachelor's degree in Microbiology and a minor in Spanish from the University of Arkansas in 1996. In 2006, she earned a Ph.D. in Pharmacology and Toxicology from the University of Arizona. Tiffany next worked as a postdoctoral fellow at the University of Texas, M.D. Anderson Cancer Center investigating the impact of early life exposure to endocrine disrupting chemicals. After her postdoctoral fellowship, she joined the TCEQ as a toxicologist in 2010. In this role, Dr. Bredfeldt has conducted health effects reviews for impacts associated with proposed air permits. She has conducted health effects evaluations of air monitoring data. Since 2010, she has served as a member of the Dose-Response Advisory Committee of the Alliance for Risk Assessment. As part of this committee, Dr. Bredfeldt focuses on the emergence of new approaches in risk assessment, particularly those associated with the application of molecular data in human health risk assessment.

Bruckner,James V.

University of Georgia

Dr. James V. Bruckner is currently a Professor of Pharmacology and Toxicology in the Department of Pharmaceutical and Biomedical Sciences of the College of Pharmacy of the University of Georgia (UGA). He holds a B.S. in Pharmacy and a M.S. in Toxicology from the University of Texas in Austin, and a Ph.D. in Toxicology from the University of Michigan. Dr. Bruckner organized and directed the UGA Interdisciplinary Toxicology Graduate Program in Toxicology for 15 years. Prior to that time he held a tenured faculty position at the University of Texas Medical School at Houston. Dr. Bruckner’s primary areas of expertise are general toxicology, toxicokinetics (TK) and human health risk assessment. His primary research focus is on the toxicology and TK of volatile organic chemical contaminants of drinking water, drug-chemical interactions at environmental exposure levels, metabolic and toxicokinetic bases for susceptibility of children to chemicals, and physiologically-based modeling of solvents and pyrethroid insecticides. The relevance of experimental designs to health risks of “real life” chemical exposures is of particular interest to Dr. Bruckner. His research funding for toxicology studies of problems of national concern from the past 40 years has consistently come from federal agencies including the U.S. Environmental Protection Agency (EPA), the U.S. Department of Energy, the Centers for Disease Control (CDC), and the U.S. Air Force (USAF), and a contract from the Pyrethroid Working Group (PWG). Dr. Bruckner has published more than 200 journal articles, book chapters and abstracts. Many of these papers focus on the toxicology, TK and PBPK modeling. He has served on a variety of expert panels and committees for the EPA, the National Institute of Environmental Health Sciences, National Aeronautics and Space Administration, USAF, Agency for Toxic Substances and Disease Registry/CDC, the U.S. Food and Drug Administration, U. S. Department of Energy and National Academy of Sciences (NAS). Dr. Bruckner’s NAS appointments have included, among others, the Committees on Safe Drinking Water, Pesticides in Diets and Infants and Children; Acute Exposure Guideline Levels; Health and Safety Consequences of Child Labor; Use of Third Party Pesticide Toxicity Research with Human Participants; and Contaminated Drinking Water at Camp Lejeune. Such work has frequently involved assessment of health risks to populations living in the proximity of military chemical and nuclear disposal sites (e.g., Camp Lejeune, NC; Fort Detrick, MD; Savannah River site, SC).

Chambers,Janice

Mississippi State University

Janice E. Chambers is the Director of the Center for Environmental Health Sciences, and is a William L. Giles Distinguished Professor in the College of Veterinary Medicine, Mississippi State University. She is originally from Berkeley, California. She holds an undergraduate degree in Biology from the University of San Francisco, and a Ph.D. in Animal Physiology from Mississippi State University. She held post-doctoral positions at Mississippi State University.Dr. Chambers has been the Principal Investigator of over $20 million in federally-funded competitive grants in the field of toxicology, with current or previous support from NIH, EPA, NSF and the American Chemistry Council. She has served on a number of advisory boards and committees, including the National Research Council Board of Toxicology, the International Life Sciences Institute/Health and Environmental Sciences Institute, the Society of Toxicology and the American Chemistry Council. She is or has been a peer review panel member for NIH and NIOSH, and a member of journal editorial boards. She has received the International Award for Research in Agrochemicals from the American Chemical Society, Agrochemicals Division. She has received a Burroughs Wellcome Toxicology Scholar Award and a SmithKline Beecham award for Research Excellence, along with the Ralph E. Powe Research Award and the Alumni Association's Faculty Achievement Award in Research at MSU. She is board certified in general toxicology by the American Board of Toxicology and she is a Fellow of the Academy of Toxicological Sciences. She has held a number of committee positions in the Society of Toxicology. She is serving as a member of EPA's permanent Scientific Advisory Panel for FIFRA, and is also a member of EPA's Human Studies Review Board, and is a member of the Board of Scientific Counselors for the National Center of Environmental Health/Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention. The Center for Environmental Health Sciences at MSU, which she directs, is an interdisciplinary research center specializing in pesticide toxicology and is supported primarily by the National Institutes of Health. This center has about 30-40 faculty, staff and students associated with it. Its research areas are neurotoxicology, biochemical toxicology, cardiovascular toxicology, analytical chemistry, biostatistics, epidemiology, computational chemistry, computational simulation, biochemistry and endocrinology. Dr. Chambers directs a mechanistic research program specializing in pesticide toxicology with a major emphasis on organophosphorus insecticides, and she has been involved in the training of about 40 graduate students and post-docs. She directs several research projects on the effects of pesticides in mammalian systems to identify the potential human health effects of pesticide exposures, and is primarily interested in the biochemical determinants of toxicity levels in adult and developing animals; her research addresses a number of Food Quality Protection Act issues. Her program emphasizes a consideration of the dose-response relationships, and for making predictions of toxicity based on realistic levels of pesticide exposure. Specifically there are projects related to the neurochemical and behavioral effects of pesticides in developing organisms; the metabolism of pesticides in developing organisms; the role of esterases, oxidative stress and pesticides in cardiovascular disease; effects of chemical mixtures and the development of data related to cumulative risk assessment; mathematical predictions of the effects of mixtures; and exposure assessment of children and adults from contact with a pet dog which has been treated with flea control insecticides.

Choi,Anna

Harvard School of Public Health

Dr. Anna L Choi is a Research Scientist at the Department of Environmental Health, Harvard School of Public Health. The quality of her extensive work in studying the effects of ocean pollutants on neurodevelopmental delays in children and type 2 diabetes and cardiovascular dysfunction among the elderly has been recognized by the publications of multiple scientific papers, book chapters, and invitations to speak in national and international conferences on the environment and health. Dr. Choi is a highly experienced environmental epidemiologist with extensive training in biostatistics. She has studied the mercury-exposed and PCB-exposure birth cohorts. She has applied her experience in advanced epidemiological and statistical methods including structural equation modeling to assess the association of marine food contaminants with adverse health outcomes, such as neurodevelopmental delays among children and type 2 diabetes and cardiovascular dysfunction among septuagenarians. Her current research projects include studying immunotoxicity in humans with lifetime exposure to ocean pollutants such as Persistent Organic Pollutants (POPs) and PFCs, glucose metabolism in adults who were prenatally exposed to diabetogenic pollutants, and the diabetogenic effects of POPs and health-policy in the prevention of obesity and type 2 diabetes. She has also led a feasibility study to assess the potential neurotoxicity of fluoride in child development in China, with the collaboration of researchers from the U.S. and China. The findings resulted in a submitted manuscript and the planning of a long-term study. She is also actively involved in the research on the impact of nutrients as possible negative confounders that may have caused

an underestimation of methylmercury toxicity. In addition, she is a regular reviewer for peer-reviewed journals including Environmental Health, Environmental Health Perspectives, Environmental Research, Environmental Science and Technology, International Journal of Environmental Research and Public Health, Neurotoxicity, and Pediatrics. Dr. Choi received her B.A. degree in Statistics and Computer Science, with distinction, from the University of Rochester. Her M.S. degree in Biostatistics and ScD degree in Environmental Epidemiology were awarded by Harvard University. Dr. Choi's research is supported by the National Institute of Environmental Health Sciences (for examining the immunotoxicity in humans with lifetime exposure to ocean pollutants; glucose metabolism in adults prenatally exposed to diabetogenic pollutants; and gut microbiome in adults with early life exposures to environmental chemicals), and the National Science Foundation (joint support with the National Institute of Environmental Health Sciences to study the immunotoxicity in humans with lifetime exposure to ocean pollutants).

Clark,Suzanne

California Northstate University

Suzanne Clark, RPh, PhD, is an Associate Professor at California Northstate University College of Pharmacy. She received a B.S. from the University of Iowa, a B.S. Pharm. from the University of Wyoming, and a Ph.D. in Pharmacology from Duke University. She also worked as a hospital pharmacist and at the Duke University Poison Control Center. Her graduate work focused on in vitro models of epilepsy, NMDA antagonists, learning, and anticonvulsant drug development. She completed post-doctoral research at the Durham Veterans Administration Medical Center/Duke University Medical Center focused on DOD-funded research on military occupational exposures related to Persian Gulf War Illness and sarin exposures, using animal models to determine neurotoxic mechanisms of NMDA antagonists. She completed additional postdoctoral work at Colorado State University on AMPA receptors and AMPAkine modulators and also on chronic animal models of temporal lobe epilepsy using kainic acid-induced epileptogenesis models and long-term in vivo recording. She taught pathophysiology at the University of Wyoming School of Pharmacy for nine years before moving to California Northstate University, where she teaches pathophysiology and pharmacology. In addition to epilepsy and learning, her interests include occupational and environmental health and toxicology, including Western US energy sectors of uranium, coal, oil and gas, and pharmacy and public health-related topics.

Cobb,George

Baylor University

For the past two decades, Dr. Cobb's research group has developed forensic analytical techniques to assess contaminant presence and movement. Many of these techniques have been deployed to evaluate contaminant presence, transport, and transformation in organisms and environmental systems. Major research thrusts have involved coupling ultra-trace analytical methods with minimally invasive non-lethal monitoring techniques. This approach allows repeated measures during long term monitoring of organism exposure, which is a critical component of comprehensive risk assessments. Most recently, Prof. Cobb's group has emphasized: nanomaterial alteration of amphibian development; interactions of toxicants and light to induce stress; airborne movement of steroids from concentrated animal feeding operations; explosives transformation in mammals; ultra-trace measurement of acutely toxic volatile compounds. Professor Cobb has published over 120 peer reviewed papers and maintains strong national and international collaborations through leadership positions in The Society or Environmental Toxicology and Chemistry as well as the American Chemical Society. Prof. Cobb has also participated in 13 EPA Science Advisory Panels and was rapporteur for 4 of these panels.

Cory-Slechta,Deborah

University of Rochester

Dr. Deborah Cory-Slechta became a faculty member at the University of Rochester Medical School (URMC) in 1982. She became Chair of its Department of Environmental Medicine and Director of the NIEHS Environmental Health Sciences Center in 1998, and served as Dean for Research from 2000-2002. She then became Director of the Environmental and Occupational Health Sciences Institute (EOHSI) and Chair of the Department of Environmental and Community Medicine at the UMDNJ-Robert Wood Johnson Medical School from 2003-2007, before returning to URMC as Professor in Environmental Medicine, Pediatrics and Public Health Sciences. Dr. Cory-Slechta has served on national review and advisory panels of the National Institutes of Health, the National Institute of Environmental Health Sciences, the Food and Drug Administration, the National Center for Toxicological Research, the Environmental Protection Agency, the National Academy of Sciences, the Institute of Medicine, and the Agency for

Toxic Substances and Disease Registry, Centers for Disease Control. In addition, Dr. Cory-Slechta has served on the editorial boards of the journals Neurotoxicology, Toxicology, Toxicological Sciences, Fundamental and Applied Toxicology, Neurotoxicology and Teratology, and American Journal of Mental Retardation. She has held the elected positions of President of the Neurotoxicology Specialty Section of the Society of Toxicology, President of the Behavioral Toxicology Society, and been named a Fellow of the American Psychological Association. Her research has focused largely on the relationships between brain neurotransmitter systems and children's neurodevelopment, and how such relationships are altered by exposures to environmental toxicants, including the role played by environmental neurotoxicant exposures in developmental disabilities and neurodegenerative diseases. Most recently this work has included the effects of developmental exposures to air pollutants. These research efforts have resulted in over 155 papers and book chapters to date. Her research funding sources include the Department of Health and Human Services (HHS) National Institutes of Health and the U. S. Environmental Protection Agency.

Cullen,Alison

University of Washington

Dr. Alison Cullen is Professor of Public Affairs at University of Washington's Evans School of Public Affairs. She holds a B.S. in Civil/Environmental Engineering from MIT (1984), and an M.S. in Environmental Health Science, Exposure Assessment, and Engineering (1989) and an Sc.D. in Environmental Health Management (1992) from Harvard University School of Public Health. Dr. Cullen joined the faculty at University of Washington in 1995, and has served as Associate Dean for Academic Affairs. Her research involves the analysis of environmental risks, decision making in the face of uncertainty and variability, and the application of value of information and distributional techniques. Dr. Cullen's areas of specialization include Environmental Risk Analysis and Policy, Civil/Environmental Engineering, Quantitative Uncertainty Analysis, and Statistical Decision Theory. She was a 2007-08 visiting professor at the Swiss Federal Institute of Technology (ETH) in Zürich, Switzerland, and is active in projects in the U.S. and internationally. Dr. Cullen serves on the board of the University of Washington's Environmental Management Program. She is also the past president of the Society for Risk Analysis. Dr. Cullen previously served on the faculty of the Harvard University School of Public Health. Her research is published in numerous peer reviewed articles and a book with co-author H.C. Frey entitled Probabilistic Techniques in Exposure Assessment: A Handbook for Dealing with Uncertainty and Variability in Models and Inputs. She is a recipient of the U.S. Environmental Protection Agency's Special Recognition in the Field of Air Toxics, the Chauncey Starr Award from the Society for Risk Analysis, and the Outstanding Young Scientist Award from the International Society of Exposure Assessment. Outside of academia, Dr. Cullen has held positions in the Water Quality Branch of the U.S. Environmental Protection Agency (EPA) and served as a technical consultant and advisor to many groups, including the U.S. Consumer Product Safety Commission, the State of Washington's Department of Ecology, the City of Seattle's Office of Sustainability, the Sloan Foundation and the Gates Foundation. She also served on the U.S. Environmental Protection Agency (EPA)'s Clean Air Scientific Advisory Committee (CASAC) committee on Sulfur Dioxide National Ambient Air Quality Standards (NAAQS) (2014), the U.S. National Academy of Sciences Committee on the Coeur d'Alene Superfund site, and was an affiliate scientist on the National Center for Atmospheric Research's Uncertainty Initiative. Dr. Cullen's research over the past three years has been supported by grants from and contracts with both government agencies and non-profit foundations, with core research support from the federal government (EPA and U.S. National Science Foundation), with additional support from the Alfred P. Sloan Foundation and the Bill and Melinda Gates Foundation.

Dourson,Michael

University of Cincinnati

Michael Dourson is Professor and Director of the Toxicology Excellence for Risk Assessment Center (the TERA Center) at the University of Cincinnati, College of Medicine. He also founded and led the nonprofit Center's predecessor of 21 years, also called TERA. Prior to directing TERA, he worked for 15 years in the U.S. Environmental Protection Agency in numerous leadership positions. He has won several awards including 4 bronze medals at EPA, the Arnold J. Lehman award from the Society of Toxicology, and the International Achievement Award by the International Society of Regulatory Toxicology and Pharmacology. He has also been elected as a Fellow of the Academy of Toxicological Sciences and as a Fellow for the Society for Risk Analysis. Dr. Dourson has co-published more than 150 papers on risk assessment methods or chemical-specific analyses. He has co-authored well over 100 government risk assessment documents, many of them risk assessment guidance texts. He has made over 150 invited presentations to a variety of organizations, and has chaired over 150 sessions at scientific meetings and independent

peer reviews. He has been elected to multiple officer positions in the American Board of Toxicology (including its President), the Society of Toxicology (SOT), and the Society for Risk Analysis. In addition to numerous appointments on government panels, such as EPA's Science Advisory Board, he is also a media resource specialist in risk assessment for the SOT, member on the editorial board of several journals. Research funding for TERA has been approximately 2/3rds government and other nonprofit work and approximately 1/3rd for industry and industry-related (summary of funding is at http://www.tera.org/about/FundingSources.html).

Eastmond,David

University of California - Riverside

Dr. David A. Eastmond is a professor and chair of the Department of Cell Biology & Neuroscience at the University of California, Riverside. He received his B.S. and M.S. degrees from Brigham Young University in Provo, Utah and his Ph.D. from the University of California, Berkeley. From 1987 to 1989, he was served as an Alexander Hollaender Distinguished Postdoctoral Fellow at Lawrence Livermore National Laboratory. Shortly thereafter, Dr. Eastmond joined the faculty at UC Riverside where he is actively involved in research and teaching in the areas of toxicology and risk assessment. The research in Dr. Eastmond's laboratory focuses on the mechanisms involved in the toxicity and carcinogenesis of environmental chemicals. His research has centered on the metabolism and chromosome-damaging effects of various environmental chemicals including benzene, a widely used industrial chemical and environmental pollutant, and ortho-phenylphenol, a commonly used fungicide and disinfectant. Dr. Eastmond has served as the president of the Environmental Mutagen Society and as a Jefferson Science Fellow in the US State Department. He has also participated on a variety of review panels related to chemical mutagenesis, carcinogenesis and risk assessment including panels for the US Environmental Protection Agency, the US Food and Drug Administration, the International Programme for Chemical Safety, the International Agency for Research on Cancer, the Organisation for Economic Cooperation and Development, Health Canada and the International Working Group for Genotoxicity Testing. He currently serves as the chair of the Board of Scientific Counselors for the National Toxicology Program and as a member of the Carcinogen Identification Committee for the California Environmental Protection Agency.

English,Joanne

NSF International

Joanne Caroline English, Ph.D., DABT, is an environmental toxicologist and public health professional with 28 years of experience in the toxicological assessment of chemicals. She is currently Senior Principal Toxicologist for NSF International, an independent, not-for-profit, nongovernmental organization whose mission is to protect and improve global human health (www.nsf.org). She is the primary or contributing author on numerous externally peer-reviewed health risk assessments for drinking water treatment chemicals, disinfection byproducts, and contaminants, available through the National Library of Medicine at the International Toxicity Estimates of Risk (ITER) website (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?iter) and has published in the areas of pharmacokinetics, genetic and systemic toxicology, and life-stage susceptibility in cancer risk assessment. Before joining NSF in 2007, she worked for Eastman Kodak Company (1985-2007) where she held a variety of technical and leadership roles in the company's Health and Environment Laboratories that included design and oversight of research in support of product development and stewardship. Dr. English specializes in quantitative health risk assessment, drinking water, food and dietary ingredient safety, nanomaterials, and the critical review of toxicological information to support the selection of safer chemical alternatives. She leads the institution's team in risk assessment, focused on developing and refining scientifically sound methods that employ mode of action data and predictive modeling. Research funding is supplied through NSF International. She serves on the U.S. Technical Advisory Group to ISO/TC 229 Nanotechnologies, serves on the executive committee of the NSF International Health Advisory Board, and is the NSF representative for the World Health Organization Chemical Risk Assessment Network. She is a member of the Society of Toxicology, having served as Councilor of the Risk Assessment Specialty Section from 2010-2012; in the presidential track of the Michigan Chapter from 2009-2012; and on the board of the Northern California Chapter from 2012 - present. She was adjunct faculty for 10 years in the Department of Environmental Medicine at the University of Rochester, and subsequently served as a member of the University's Environmental Health Sciences Center External Advisory Board. She earned her B.S. with honors in biology from the University of Michigan, an M.S. in environmental toxicology from Utah State University, and her Ph.D. in toxicology from the University of Rochester.

Foster,Paul

National Institute of Environmental Health Sciences

Dr. Paul Foster received his PhD from Brunel University, Uxbridge, England in 1977 and is currently the Chief of the Toxicology Branch of the Division of the National Toxicology Program (NTP) at the National Institute of Environmental Health Sciences (NIEHS) in Research Triangle Park, NC. The Toxicology Branch is responsible for the scientific leadership of the NTP's cancer and non-cancer testing Program. Prior to joining NIEHS in 2002, he was the Director of the research program in endocrine, reproductive and developmental toxicology at the CIIT Centers for Health Research (CIIT). He joined CIIT in December 1995 after a 13-year career at Zeneca's (formerly Imperial Chemical Industries) Central Toxicology Laboratory in Cheshire, England, where he was Head of Reproductive and Developmental Toxicology responsible for all aspects of the Company's activities in this field in both the research and regulatory arenas. Dr. Foster's research interests span from understanding the potential human health effects of environmental endocrine disruptors (particularly antiandrogens); mechanisms of testicular toxicity; the study of early testicular Leydig cell dysfunction induced by chemicals as a prelude to hyperplasia and tumors and the toxicokinetic and dynamic parameters affecting the induction of reproductive and developmental toxicity. He also has a broad interest in risk assessment issues in these areas and currently serves as the NTP's senior discipline leader in Reproductive, Developmental and Endocrine Toxicology.Dr. Foster was presented with the European Society of Toxicology's young scientist award in 1988 for his work on testicular toxicity and the Society of Toxicology (SOT)'s Reproductive and Developmental Toxicology specialty section award for best paper published in Toxicological Sciences in 2001 and 2004. He has been awarded four NIH merit awards and an EPA Bronze medal. Dr. Foster has served on numerous national and international advisory committees (EPA, WHO, IPCS, ECETOC, OECD, INSERM, MRC, NRC/ NAS, SETAC) dealing with reproductive and developmental toxicology or endocrine disruption. Dr Foster is a member of a number of learned Societies dealing with toxicology and reproduction. He is a former Chair and member of the Continuing Education Committee (1996-1999), Science Program Committee (2009-2013) and is currently an SOT Councilor (2016-2019). Dr. Foster was a Past President of the Reproductive and Developmental Toxicology specialty section (1997-2001) of the Society of Toxicology and recently received the Specialty Section's lifetime achievement award (2016). He is also a Fellow of the Academy of Toxicological Sciences (2011) and was elected to the Board of Directors in 2014 and is the current Secretary/ Treasurer. Dr. Foster has served on the editorial boards of Reproductive Toxicology, Birth Defects Research: Developmental and Reproductive Toxicology and as an Associate Editor of Toxicological Sciences. Dr Foster is the author or co-author of over 130 peer-reviewed publications and book chapters, including 5 of the top 50 most cited papers (3 in the top10) in Toxicological Sciences and numerous regulatory study reports.

Foster,William Michael

Independent Consultant

Dr. W. Michael Foster is a consultant for toxicologic information focused on the respiratory system of mammalian species. Dr. Foster has recently retired on March 31, 2015, from an Academic position as Professor in Medicine, in the Division of Pulmonary, Allergy, and Critical Care Medicine of the School of Medicine at Duke University in Durham, NC, where he served on faculty from 2000 to 2015. Dr. Foster received his graduate Ph.D. degree in Physiology from New York University and continued training in Pulmonary toxicology as a Research Fellow in Pulmonary Medicine at the State University of New York at Stony Brook. Although retired from the School of Medicine at Duke University, on an annual basis he continues to provide lectures to graduate and undergraduate students in the Nicholas School of the Environment of Duke University. Previously Dr. Foster held faculty and teaching appointments at the State University of New York at Stony Brook (1977-1991), and the Johns Hopkins University School of Public Health (1991-2000). Dr. Foster frequently participated as a scientific reviewer for the NIH Center for Scientific Review (2005-2014) and was a participant in the peer review of EPA Clean Air Research Centers (2010). Dr. Foster has been a member of the American Physiologic Society (since 1982), and the American Association for the Advancement of Science (2005). At present (2012-2015) Dr. Foster is a member of the Environmental Protection Agency (EPA) SAB Chemical Assessment Advisory Committee (CAAC), and previously from 2009 to 2012 Dr. Foster participated on the EPA Science Advisory Board member of the Ozone Review Panel. For the period 2007 to 2008, Dr. Foster served on the committee of the National Research Council of the National Academies that evaluated morbidity and mortality risk from trophospheric ozone. For the years 2006/2007 he served as the President of the Inhalation and Respiratory Specialty Section of the Society of Toxicology. Dr. Foster has recently resigned (March 31, 2015) from the editorial board of the Environmental Health Perspectives journal on which he was an Associate Editor from 2010 to 2015. Dr. Foster's expertise in environmental health, pulmonary physiology and inhalation toxicology has enabled him to edit

two books on air pollution, and author or co/author over 115 journal articles and book chapters. His research interests, and in a sense hallmarks of his scientific career and accomplishments, encompass a paradigm that links cardio-pulmonary injury to inhalation exposures using established data bases of epidemiological investigations and his own previously researched and acquired laboratory-based studies on humans and animal models. Now that Dr. Foster is fully retired from academia and active research management, Dr. Foster's laboratory is closed and he does not receive extramural funding or scientific resources from Federal grants of the National Institutes of Health or the Environmental Protection Agency. Dr. Foster's research and editorial experience encompasses 3 separate areas: 1) environmental triggers of injury and exacerbation to the respiratory tract; 2) development of therapeutic targets to treat inflammatory airway disease; and 3) host (genetic) factors of susceptibility to oxidant lung injury. A strong feature of Dr. Foster's academic career and continued participation in the scientific community as a private consultant, has been to enhance understanding of health risk from inhalation and dermal exposures to airborne chemicals and toxins, and the interdependence between therapy, health risk, and establishment of regulatory standards for safety that enhance good health outcomes.

Garrett,Scott

University of North Dakota

Dr. Scott Garrett is an Associate Professor in the Department of Pathology in the School of Medicine and Health Sciences at the University of North Dakota. Dr. Garrett is Director and co-founder of the Interdisciplinary Graduate Program in Clinical and Translational Science. He received a BS in chemistry and a Ph.D. in Biochemistry and Molecular Biology at the University of South Dakota. Dr. Garrett has published over seventy manuscripts, and his research interests are metallothionein and heavy metals in renal, bladder and prostate toxicology. He teaches graduate level courses in biochemistry-cell biology, neoplasia, and cell injury and repair. He is on the editorial board of Journal of Applied Toxicology, Editor of Toxicology Letters and has served on several grant review panels in toxicology and oncology for the Department of Defense Medical Research Program, and the State of Florida. Dr. Garrett has also served on NIH review and is a member of the Society of Toxicology.

Harris,Cynthia M.

Florida A&M University

Dr. Cynthia M. Harris is Director and Professor of the Institute of Public Health of Florida A&M University. Dr. Harris holds a B.A. (Honors) in Biology (1978) and an M.A. in Genetics (1981) from the University of Kansas, and a Ph.D. in Biomedical Sciences from Meharry Medical College (1985) with concentration in the areas of nutritional biochemistry and toxicology. Dr. Harris was awarded a postdoctoral fellowship in the Interdisciplinary Programs in Health of the Harvard School of Public Health, where she conducted research regarding the effects of heavy metals on pulmonary function and environmental risk assessment. She is a Diplomate of the American Board of Toxicology (DABT). From 1990-1996, Dr. Harris served as a staff toxicologist and branch chief with the Agency for Toxic Substances and Disease Registry, a sister agency of the Centers for Disease Control and Prevention, in Atlanta, Georgia. Dr. Harris was the first African American branch chief of the Agency for Toxic Substances and Disease Registry. As branch chief of the Community Health Branch, she was responsible for the administration and management of staff who conducted environmental health assessments, at the request of individual citizens and community groups across the nation. During her employment, she received the award of "Employee of the Year" and served as program director for the first, ever conference, by the Department of Health and Human Services, on the disproportionate impact of environmental contamination on the poor and underserved. In 1996, Dr. Harris accepted the position of Director of the Institute of Public Health at Florida A&M University. Since her tenure, she has been actively engaged in the general planning and development of the public health program. The 1997 Florida State Legislature approved and appropriated funding to support the MPH program and, in 2005, the Institute of Public Health developed the first Doctor of Public Health Program (DrPH) in the state of Florida. Under her leadership and administration, the FAMU Public Health Program has received full, maximum accreditation for its initial review and its two subsequent reviews. It was the first accredited public health program in North Florida and the first Doctor of Public Health (DrPH) Program in the state of Florida, graduating the first doctoral graduate (DrPH) in the state of Florida. In addition, under her leadership, FAMU is the only Historically Black College and University that now also offers the Master of Public Health (MPH) degree online and is ranked among the Top 50 Best Graduate Degrees Online by MastersDegrees Online. Her students also, over the past five years, have achieved a pass rate of 100% on the National Certified Health Educator Specialist (CHES) Examination and have garnered prestigious international and national fellowships with the Centers for Disease Control and Prevention, acceptance to additional doctoral

programs including Johns Hopkins University, University of North Carolina-Chapel Hill, and the University of Texas-Houston, as well as medical and law schools. Her alumni also are employed in the public and private sector, including serving as senior aides to the U.S. Congress and pharmaceutical company administrators. Dr. Harris has served on numerous committees and panels, which includes membership on the Board of Directors for the Florida Public Health Association, Chair of the Florida Public Health Partnership Council on Stroke, member of the Pregnancy Mortality Review Board, member of the Florida Sickle Cell Task Force, member of the American Public Health Association, member of the editorial board of the Harvard Journal of Public Health, reviewer for the Journal of Environmental Health, and board member for the Panhandle Chapter of the Florida March of Dimes. She has also provided a review for the Food and Nutrition Board of the National Academy of Sciences. She was appointed by the Secretary of the U.S. Department of Health and Human Services to the Agency for Toxic Substances and Disease Registry Board of Scientific Counselors and served on the Board of Councilors of the Council for Education and Public Health – the national accrediting body for all schools and programs of public health. She is currently Vice-President of the Board of Directors for Trust for America's Health and is a member of the charter U.S. Environmental Protection Agency's Science Advisory Board. She was recently appointed to the Board of Directors of the Association of School and Programs in Public Health (ASPPH). She was recently also awarded the Distinguished Alumnus Award in the Biomedical Sciences from Meharry Medical School in Nashville, Tennessee (October 2014). Dr. Harris has the distinction of also attaining this same award in 1997 from Meharry. In addition, she was also recently selected for the University of Kansas Black Alumni Leaders and Innovators Award. This award will be presented in September of 2015. In addition, she has served on numerous grant reviews for several federal agencies such as the Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), National Institute of Environmental Health Services (NIEHS), and the Health Resources and Services Administration (HRSA). Dr. Harris' research has been supported by grants primarily from the federal government (CDC and HRSA), with additional grant support from state and local governments and foundations. She led the establishment of a coalition to fight childhood obesity in Tallahassee that resulted in the proactive partnership of over (70) organizations and funded projects (thru the Florida Blue Foundation – fiscal arm of Blue Cross Blue Shield of Florida). She has been proactive in working with community partnerships in reducing the disparities in infant mortality evident in African Americans in Gadsden County, Florida by initially conducting a county-wide needs assessment that resulted in the funding of a local community group making substantial gains in increasing maternal and child health. During her tenure at FAMU, her public health program has garnered over $15 million in extramural funding.

Hewett,James

Syracuse University

Dr. James Hewett received a Bachelor's of Science degree in Microbiology and a PhD degree in Pharmacology and Toxicology from Michigan State University. He is currently an Associate Professor of Biology and a member of the Interdisciplinary Neuroscience Program at Syracuse University, where he developed and teaches two courses for upper division undergraduate and graduate students, titled Principles of Human Toxicology and Seminar in Neurotoxicology. Additionally, he is currently Co-Director of the Biology Graduate Program at Syracuse University, which consists of more than 30 faculty members and 40 PhD and Master's degree candidates. Prior to joining the faculty at Syracuse University in 2011, Dr. Hewett was an Assistant Professor of Neuroscience at the University of Connecticut Health Center, where he served a term as the Director of the Neuroscience Graduate Program and chair of the executive committee of the program. He has served as chair and/or member on more than 30 graduate student qualifying examination and 20 thesis advisory committees. Nationally, he was an elected member of and served a five-year term on Council for the American Society for Neurochemistry and served five years as a member of the Young Investigator Education Enhancement Committee for the society as well. In addition to this society, Dr. Hewett is a long-standing member of the Society for Neuroscience and the American Epilepsy Society. He is Deputy editor of Metabolic Brain Disease, is a member of the Editorial board of Experimental Biology and Medicine, and serves as ad hoc peer reviewer for numerous scientific journals. He has also been invited to serve as ad hoc peer reviewer for granting agencies, including the American Heart Association and the Italian Ministry of Health in association with NIH Center for Scientific Review. Dr. Hewett is the principle investigator of a biomedical research laboratory at Syracuse University that focuses on epilepsy, a common neurologic disorder of the brain that is characterized by spontaneous seizure events, and neurodegeneration. This research employs mouse and cell culture models to provide insights into the cellular and molecular mechanisms that affect seizure induction, epileptogenesis, and neuronal cell death. This research is currently funded by RO1 and R15 grant awards from the National Institute of Neurological Disorders and Stroke. He also receives research support from a local initiative to study the neurotoxicity of gestational exposure to a novel DDT-like pollutant identified in the sediment of Onondaga Lake, which was placed on the National Priorities

List of the EPA Superfund Program in 1994. Since arriving at Syracuse University, Dr. Hewett has mentored fourteen undergraduate students on independent research projects in his laboratory, resulting in six senior theses in the Honors Capstone or Biology/Biochemistry Distinction Programs, and is currently advisor to two PhD candidates in the Biology and Neuroscience programs. He has published in numerous journals of national scientific societies, including the Journal of Pharmacology and Experimental Therapeutics, Pharmacological Reviews, Toxicology and Applied Pharmacology, Pharmacology & Therapeutics, Epilepsia, Journal of Biological Chemistry, Journal of Neurochemistry, and American Journal of Physiology, as well as the neuroscience journals, GLIA and Neurobiology of Disease.

Hoberman,Alan

Charles River Laboratories, Inc.

Dr. Hoberman has been employed by Charles River Laboratories, Preclinical Services, Pennsylvania (formerly Argus Research Laboratories, Inc.) since 1981, serving as Study Director, Director of Reproductive Toxicology and currently as Executive Director, Global Developmental, Reproductive and Juvenile Toxicology. Prior to joining Argus Research, Dr. Hoberman was the Head of Reproductive Toxicology at Hazleton Laboratories in Vienna, Virginia. He received his BS in Biology from Drexel University, and was a graduate student in Anatomy at the University of Virginia before moving to Arkansas and completing a MS in Interdisciplinary Toxicology from the University of Arkansas and a Ph.D. in Toxicology from Pacific Western University. He is a Diplomat of the American Board of Toxicology and a Fellow of the Academy of Toxicological Sciences, with over 85 publications and book chapters. He is the co-editor of "Pediatric Non-Clinical Drug Testing, Principles, Requirements, and Practices" published in January 2012. Dr. Hoberman has been a member of the Teratology Society since 1978 and in the current Vice-President Elect. He is also a member of the European Teratology Society since 1982 and past councilor. He has been a member of the American College of Toxicology since 1979 and is currently the Treasurer and serves on the Editorial Board of the ACT Journal, International Journal of Toxicology. He is Past President of the Reproductive and Developmental Toxicity Specialty Section of the Society of Toxicology and Past President of the Middle Atlantic Reproductive and Teratology Association, as well as Past President of the Arkansas Biotechnology Organization.

Hughes-Oliver,Jacqueline

North Carolina State University

Dr. Jacqueline M. Hughes-Oliver is Professor of Statistics at North Carolina State University (NC State). She earned her PhD in Statistics from NC State in 1991, following a BA in Mathematics from the University of Cincinnati in 1986. After one year at the University of Wisconsin—Madison, Dr. Hughes-Oliver returned to NC State where she transitioned through the usual academic ranks. She has held a visiting appointment at Stanford University, served as Faculty Fellow at the Statistical and Applied Mathematical Sciences Institute (SAMSI), and was Professor of Statistics at George Mason University. From 2005 to 2009, Dr. Hughes-Oliver was Director of the Exploratory Center for Cheminformatics Research at NC State. During her graduate and undergraduate training, Dr. Hughes-Oliver held positions at the National Institute of Environmental Health Sciences and at the Environmental Protection Agency. Dr. Hughes-Oliver has a variety of research interests. Since 2000, her research has been sponsored by a number of agencies, including multiple awards from the National Science Foundation, the North Carolina Department of Transportation, and more recently the National Institutes of Health through the Roadmap Initiative. Her methodological research focuses on prediction and classification, analysis of high-dimensional data, variable and model selection with dimension reduction, design and analysis of pooling or mixture experiments, optimal design, and spatial modeling. Application areas include drug discovery, ontology-driven analysis of microarray studies, metabolomics, point sources, engineering manufacturing and transportation modeling. Her research is motivated by current health-related and environmental issues, and to discover new drugs in an efficient way. Service to the profession includes elected and appointed positions in the American Statistical Association (ASA) and the Eastern North American Region (ENAR) of the Biometrics Society. She has served on review panels for the National Science Foundation and the National Institutes of Health and has been referee for many articles submitted to various professional journals. Some of her awards include the ASA's 2006 Statistics in Chemistry Award, being named a Fellow of the ASA in 2007, and receiving the Blackwell-Tapia Prize in 2014.

James-Todd,Tamarra

Harvard T.H. Chan School of Public Health

Dr. Tamarra James-Todd is the Mark and Catherine Winkler Assistant Professor of Environmental Reproductive and Perinatal Epidemiology at Harvard T.H. Chan School of Public Health. Dr. James-Todd's research focuses on the role

of environmental endocrine-disrupting chemicals on women's health outcomes, with a particular focus on diabetes and reproductive health issues that disproportionately affect minority populations. She received her Ph.D. in epidemiology from Columbia University in 2008 and completed two postdoctoral fellowships in reproductive and diabetes epidemiology at Brigham and Women's Hospital and Harvard School of Public Health (2008-2010). In 2011, she joined the faculty of Harvard Medical School as Instructor in Medicine. She also became an Associate Epidemiologist at Brigham and Women's Hospital's Connors Center for Women's Health and Gender Biology, where she studied the role of phthalates and diabetes risk in women. Her research on racial/ethnic differences in environmental endocrine disrupting chemicals and diabetes risk factors, as well as adverse pregnancy outcomes was funded by the American Diabetes Association and the National Institutes of Health Office of Research in Women's Health, where she was a Building Interdisciplinary Research Careers in Women's Health (BIRCWH K12) scholar. She was among the first to document the association between phthalates and diabetes risk in women. She was also the first to publish on endocrine disrupting chemicals in black hair care products and to evaluate the role of these chemicals in hair products on risk of earlier age at menarche among black girls. Dr. James-Todd has published in highly-respected peer-review journals, including Environmental Health Perspectives and Epidemiology. She is currently working with a number of U.S.-based pregnancy cohorts, as well as a Kuwait-based pregnancy cohort to evaluate the role of phthalates and other endocrine-disrupting chemicals on adverse pregnancy outcomes.

Klaunig,James E.

Indiana University

Dr. James E Klaunig is Professor of Environmental Health at Indiana University, Bloomington since 2010. He received his BS (Biology) from Ursinus College, Collegeville PA, and a Ph.D (Pathology / Toxicology) from the University of Maryland, Baltimore, MD under the mentorship of Benjamin F Trump. Previously he spent 20 years on the faculty as Robert Forney Professor and Director of Toxicology at Indiana University School of Medicine. His research has been devoted to understanding the mechanisms and human risk of environmental and pharmaceutical toxicants particularly their role in carcinogenesis. His research has been supported by the NIH, DOD and non federal sources of support. He is active in the Society of Toxicology having served on elected and appointed committees over the past 30 years. He has received several awards for his academic and service work including the Kenneth P. DuBois Award (Midwest SOT), the George H. Scott Award (Toxicology Forum), the Benjamin Trump Lectureship Award (Aspen Cancer Conference), and Freehold HS Alumni Hall of Fame. From Indiana University, he has also received the Otis R. Bowen, M.D. Distinguished Leadership Award and the Indiana University Board of Trustees' Teaching Award. He received the Sagamore of the Wabash, the highest award given for service to the State of Indiana for his tenure as the State Toxicologist of Indiana. He served as a member of National Academy of Sciences Committee on the Analysis of Cancer Risks in Populations near Nuclear Facilities. He is President of the Toxicology Forum and president of the Carcinogenesis speciality section of the SOT. He was a founding Associate Editor of Toxicological Sciences and Editor in Chief of Toxicologic Pathology. He is a Fellow in the Academy of Toxicological Sciences and the International Academy of Toxicologic Pathology. He was recently selected by Thomson Reuters as a Highly Cited Researcher (2002-2012) (ISIhighlycited.com) He has published over 230 peer reviewed manuscripts and book chapters and has mentored numerous Graduate students, postdoctoral fellows and young faculty in Toxicology and Carcinogenesis.

Laffan,Susan

GlaxoSmithKline

Dr. Susan Laffan is a scientific director in pharmaceutical research and development at GlaxoSmithKline. She is an experienced toxicologist in the field of the nonclinical safety assessment of medicines in development, with expertise in reproductive and developmental toxicity. Susan has a BS in Chemistry from the University of Wisconsin in Madison and earned a PhD in toxicology from the University of North Carolina at Chapel Hill. She conducted her dissertation research at the US Environmental Protection Agency, Reproductive Toxicology Division in Research Triangle Park, NC. Since 2003, she has served as a toxicologist and study director in the Reproductive Toxicology Group of GlaxoSmithKline's Safety Assessment Department. Her research interests are in the study of mechanisms of reproductive toxicity, in particular, endocrinologic changes that manifest as pathophysiological events and pharmacologically-mediated mechanisms of teratogenicity. She serves as an internal consultant on nonclinical pediatric advisory panel, directly influencing several nonclinical drug development plans to support the enrollment of women and children in clinical trials. As a speaker at national professional associations and book chapter author, Susan is a recognized expert in reproductive and developmental toxicology. Susan is a topic expert for the

International Council for Harmonization (ICH) guidance for nonclinical support of pediatric drug development and an active industry representative for ILSI-HESI developmental and reproductive toxicology technical committee and is past president of a regional association in the discipline. She is a member of the Society of Toxicology, The Teratology Society and the Mid-Atlantic Reproduction and Teratology Association (MARTA).

Lash,Lawrence

Wayne State University

Dr. Lawrence H. Lash is a Professor and Associate Chair of the Department of Pharmacology at Wayne State University School of Medicine in Detroit, MI. He received his B.A. in biology in 1980 from Case Western Reserve University in Cleveland, OH and his Ph.D. in biochemistry in 1985 from Emory University School of Medicine in Atlanta, GA. After a postdoctoral fellowship in pharmacology and toxicology at the University of Rochester in Rochester, NY (1985–1988), he joined the faculty at Wayne State. Dr. Lash teaches medical and graduate students and has research interests in the areas of drug metabolism and transport, renal toxicology, and in vitro toxicology models. His research has been funded by the National Institutes of Health, the U.S. EPA, the Department of Defense Peer-Reviewed Medical Research Program, and the pharmaceutical industry. Major research contributions have included discovery and identification of transport mechanisms for glutathione across renal basolateral plasma and mitochondrial inner membranes, identification of mitochondria as a potent and early intracellular target in the nephrotoxicity induced by the trichloroethylene metabolite DCVC, provision of pharmacokinetic and metabolic data for the environmental contaminants tri- and perchloroethylene in human and rodent liver and kidney, and demonstration of the therapeutic potential of modulating mitochondrial glutathione transporters in diabetic nephropathy, compensatory renal hypertrophy, and prostate cancer. Dr. Lash has authored more than 180 peer-reviewed publications and reviews and has edited or co-edited 4 books. Dr. Lash is very active in service to the academic and regulatory scientific community. He is Editor-in-Chief of Toxicology Reports, has served for several years as an Associate Editor for The Journal of Pharmacology and Experimental Therapeutics, Toxicology and Applied Pharmacology, Pharmacology and Therapeutics, and Advances in Nephrology, is on 7 other editorial boards, reviews manuscripts for several other journals in the fields of pharmacology, toxicology, and physiology, and has served as both a regular and ad hoc member of several study sections for the National Institutes of Health Center for Scientific Review, the National Institute of Environmental Health Sciences, and the National Institute of Diabetes, Digestive and Kidney Diseases. Dr. Lash has served since 2009 as an established peer reviewer for U.S. EPA Provisional Toxicity Value (PTV) manuscripts, he has been a workshop participant for 4 IRIS database risk assessment reviews, consulted for the National Research Council for their report on “Biomarkers of Urinary Toxicity” (1992-1995) and for the U.S. EPA on their human health risk assessments for trichloroethylene (1996-2000) and perchloroethylene (1998-2000), and was a workshop participant for two monographs for the International Agency for Research on Cancer.

Lasley,Stephen

University of Illinois at Chicago

Dr. Lasley received his Ph.D. from the University of Louisville in 1979, and was a postdoctoral fellow in Environmental Health at the Univ. of Cincinnati College of Medicine from 1979-1982. He joined the Dept. of Cancer Biology and Pharmacology at the Univ. of Illinois College of Medicine in 1986, and has progressed to Professor of Pharmacology and Assistant Head. He is Course Director of the Medical Pharmacology course, has chaired the local IACUC since 1995, has served on numerous grant review panels for NIH/NIEHS and the Department of Defense (CDMRP – Gulf War Illness Research Program), and is an Associate Editor for NeuroToxicology. An SOT member since 1986, he was Councilor for the Neurotoxicology Specialty Section (2004-2006), and during that time Chair of the subcommittee to review nominations for the NTSS Distinguished Investigator Award. Dr. Lasley also has served as Director of the SOT Placement Service (1996-97) and Chair of the SOT Animals in Research Committee (2004-05). His research interests concern the neurotoxicity resulting from chronic exposure to heavy metals, particularly lead and manganese, and their effects on the processes of neurotransmission underlying synaptic plasticity. Recently, he was awarded additional extramural funding from the Department of Defense to investigate therapeutic approaches for a murine model of Gulf War Illness. He was funded by NIH through February, 2016 for a project examining the neurochemical effects of developmental manganese exposure.

Li,Abby A.

Exponent Incorporated

Dr. Abby A. Li is a Senior Managing Scientist in the Health Science Practice of Exponent Inc., an international scientific consulting firm. She holds a B.A. in Chemistry and a Ph.D. in Pharmacology and Physiology from the University of Chicago. Dr. Li's research interests include evaluating the neurotoxic potential of industrial and agricultural chemicals and applying quantitative risk assessment approaches to neurotoxicity endpoints. Dr. Li has served on international and national panels for workshops on improving testing and evaluation of the neurotoxic potential of chemicals in adults and offspring. Dr. Li served on the National Academy of Science's National Research Council Committee on Toxicity Testing and Assessment of Environmental Agents in the 21st century, the EPA's Science Advisory Board (SAB) Environmental Health Committee, the EPA's SAB Risk and Technology Review Committee evaluating effects of industrial emissions of hazardous air pollutants on public health and the environment, the EPA's SAB Chemical Assessment Advisory Committee and Hydraulic Fracturing Research Advisory Panel. She has been a member of several International Life Science Institute Committees on adult and developmental neurotoxicity testing (DNT), and toxicity testing strategies for pesticides. Dr. Li served on the U.S. expert teams to the Organization for Economic Cooperation and Development (OECD) for the development of international test guidelines for adult and developmental neurotoxicity testing. Prior to joining Exponent Inc., Dr. Li was Senior Science Fellow at Monsanto, providing expertise in toxicology/risk assessment. She led the neurotoxicology group at Monsanto's Environmental Health Laboratory where she conducted pharmacokinetic, toxicology and neurotoxicology studies for industrial chemicals, agricultural products, and pharmaceuticals. These studies included guideline, specialized mechanistic studies, as well as human and in vitro studies. She continues to design, monitor and analyze data from adult and developmental neurotoxicity studies at contract laboratories for different industry clients. She is currently the Vice-President of the Neurotoxicity Specialty Section of the Society of Toxicology.

Lichtveld,Maureen

Tulane University

Maureen Lichtveld, M.D., M.P.H has 35 year experience in environmental public health and currently is Professor and Chair, Department of Global Environmental Health Sciences, Tulane University, School of Public Health and Tropical Medicine. Her research focuses on environmentally-induced disease including asthma and cancer, health disparities, environmental health policy, disaster preparedness, and public health systems. She holds an endowed chair in environmental policy and is Associate Director, Population Sciences, Louisiana Cancer Research Consortium. Dr. Lichtveld has a track record in community-based participatory research with a special emphasis on persistent environmental health threats affecting health disparate communities living in disaster prone areas. As Director of the Center for Gulf Coast Environmental Health Research, Leadership, and Strategic Initiatives, Dr. Lichtveld serves as Principal Investigator of several Gulf Coast-associated environmental health research and capacity building projects ascertaining the potential impact of the Gulf of Mexico Oil spill: the NIH-funded Transdisciplinary Research Consortium for Gulf Resilience On Women's Health, addressing potential post- oil spill effects on vulnerable pregnant- and non-pregnant women; "Risk and Resilience in Environmental Health", a project designed to implement rapidly deployable community-based research, outreach and education; and the Gulf Region Health Outreach Program's Environmental Health Capacity and Literacy Project, aimed at strengthening individual and community resilience through an environmental health clinical referral network, emerging scholars, and trained community health workers navigating frontline health services. Dr. Lichtveld was honored as CDC's Environmental Health Scientist of the Year and twice named Woman of the Year by the City of New Orleans. She was recently elected to the National Academy of Sciences-Institute of Medicine Roundtable on Environmental Health Sciences, Research, and Medicine, and as the incoming Editorial Board Chair of the American Journal of Public Health. Dr. Lichtveld serves as the current President of the Hispanic Serving Health Professions Schools.

Marty,Melanie

University of California at Davis

Dr. Melanie Marty is Assistant Deputy Director for the Science Division at the Office of Environmental Health Hazard Assessment (OEHHA), California Environmental Protection Agency. Dr. Marty received her Ph.D. from the University of California, Davis in Pharmacology and Toxicology. She has been at OEHHA for more than 25 years focusing on evaluating public health impacts and assessing risk of environmental chemicals. She has been a leader in evaluating health risks from early life exposure to environmental toxicants. As Assistant Deputy Director, Dr. Marty

reviews OEHHA technical documents evaluating public health impacts and risk of exposure to contaminants in drinking water, air, and other media, recommendations for health-based standards for pollutants in air and water, risk assessment guidelines, chemical listings and designations, and other departmental reports. She also participates in policy development for OEHHA and works with other Cal/EPA departments on policy related issues. Dr. Marty is also one of the key scientists for OEHHA on the California Green Chemistry initiative. She has served on a number of EPA peer review committees, including the Science Advisory Board's ad hoc committee evaluating the 2005 Supplemental Guidance for Assessing Risk from Early Life Exposure to Carcinogens. She was Chair of the U.S.EPA's Children's Health Protection Advisory Committee from 2001-2009, which advises the Administrator on issues related to children's environmental health. During this time, she was also liaison between the CHPAC and the SAB. Dr. Marty has served on a number of committees in California, and is currently a member of the California Breast Cancer Research Program Advisory Committee, which advises the University of California Office of the President on funding breast cancer research, and the South Coast Air Quality Management District Clean Fuels Advisory Committee. Dr. Marty is also an Adjunct Associate Professor at the University of California, Davis, Department of Environmental Toxicology, where she teaches a course in risk assessment of environmental chemicals.

Meistrich,Marvin

University of Texas

Dr. Marvin L. Meistrich is Professor of Experimental Radiation Oncology at the University of Texas M.D. Anderson Cancer Center. He received a Ph.D. in Solid State Physics at Cornell University studying radiation damage to crystalline solids. He did postdoctoral research at Bell Telephone Laboratories on mutagenic effects of specific photochemical lesions in DNA and at the Ontario Cancer Institute developing biophysical methods for separation of testicular cells. Since 1972 he has been on the faculty of the University of Texas MD Anderson Cancer Center. His interests include reproductive biology, mutagenesis, radiation biology and toxicology. He has been involved with basic studies of the cell and molecular biology of spermatogenesis and the effects of toxicants on the process. In particular, his focus has been on the effects of radiation and chemotherapeutic drugs on killing and mutation induction in stem cells and on the somatic environment altering the ability of spermatogenesis to recover. His research and clinical studies included rodents (mice, rats) and primates (macaques, humans). He has developed models for extrapolation of experimental data for human quantitative reproductive risk assessment. In addition he has demonstrated induction of testicular cancer by fetal exposure of mice to radiation or an alkylating agent. He was Program Director for Reproductive Biology Program of the University of Texas Graduate School of Biomedical Sciences at Houston from 1992 to 2003. His research has been continuously funded by NIH and other agencies since 1975. Dr. Meistrich has authored over 250 peer-reviewed journal articles and over 80 invited reviews, editorials, and book chapters. Dr. Meistrich has served on a wide variety of editorial and review boards for scientific journals and government agencies. He served on several NIH Study Sections. In 1998 he received a Fogarty Senior International Fellowship to investigate radiation induced genetic damages in individual sperm cells. He was elected as a Fellow of the American Association for the Advancement of Science in 2009.

Miller,Diane

Center for Disease Control and Prevention

Diane Miller is a Research Toxicologist and the Head of the Chronic Stress & Neurotoxicology Laboratory of CDC-NIOSH at the NIOSH facility in Morgantown, WV. She also holds an appointment as a Graduate Faculty member in the interdisciplinary Neuroscience Program at West Virginia University. She received her BS in biology at Northern Illinois University and her MS and Ph.D in experimental psychology and psychopharmacology from the University of Kentucky and completed post-doctoral training in neurotoxicology at the USEPA and the University of North Carolina. Prior to joining NIOSH she was a senior research toxicologist at the US EPA where she evaluated the impact of diverse classes of compounds, including toxic chemicals, pharmacological agents and drugs of abuse on the adult and developing nervous system. Most recently she has been determining the CNS effects of the broad range of chemicals used in the Gulf War theatre. She continues to investigate the role pesticides, other chemicals, stress and life style factors may play in the etiology of neurodegenerative diseases like Alzheimer's and Parkinson and the mechanisms by which they can cause or alter neurotoxicity. To this end her research utilizes human populations considered to have high levels of occupational stress such as police officers as well as experimental animal models of neurotoxicity, neurodegeneration and stress. Dr. Miller is an associate editor of the International J of Stress Management and on the editorial boards of Neurotoxicology & Teratology and the J of Alcohol & Drug Research. She has authored over 130 papers in relevant peer-reviewed journals including Brain Research, the J Neurochemistry, J

Neuroscience, J Occupational & Environmental Med, J. Pharmacol Exp Therapeutics, Science, Metabolism, Neurotoxicology & Teratology, Neurotoxicology, PLoS ONE, PNAS, Toxicol & Applied Pharmacol, Tox. Sci.

Morandi,Maria

Independent Consultant

Dr. Maria Morandi received a BS degree in Chemistry from the City College of New York, and MS and Ph.D. degrees in Environmental Health Sciences from the Norton Nelson Institute of Environmental Medicine at New York University. She is certified in the comprehensive practice of industrial hygiene by the American Board of Industrial Hygiene. She was a Research Professor and the Director of the Inhalation and Pulmonary Physiology Core at the Center for Environmental Health Sciences in the Department of Biomedical and Pharmaceutical Sciences at the University of Montana in Missoula, Montana, until her retirement from academia in 2012. Prior to that, she was in the faculty of the School of Public Health at the University of Texas in Houston. Dr. Morandi's research focus at the University of Montana was on developing methods for assessing exposures to wood smoke and respiratory effects in humans and in animal models, and on determining the physiochemical characteristics of engineered nanoparticles that might explain their bioactivity and potential risk to public health. She has done extensive research on the development of passive sampling methods for monitoring personal exposures to volatile organic compounds. These methods have been applied by she and others to assess adult and children's exposures in large population studies, including residents of disadvantaged communities disproportionally burdened by outdoor source emissions and a subset of participants in NHANES. She has over fifty peer-reviewed publications on these methods, other exposure-related subjects, and aerosol characterization and source apportionment. Dr Morandi has served in multiple national-level committees and review panels, including EPA's Chemical Assessment Advisory Committee, the Clean Air Scientific Advisory Committee for Ozone and Lead Review Panels, the Integrated Human Exposure/Health Effects Committee and the Research Strategies Advisory Committee of the Science Advisory Board; the Committee on Acute Exposure Guideline Levels of the Board on Environmental Studies and Toxicology of the National Research Council, National Academies of Science; the Mine Health Research Advisory Committee of the Mining Safety and Health Administration, the Board of Scientific Councilors of the National Toxicology Program of the National Institute of Environmental Health Sciences, and the Board of Scientific Councilors of the Agency for Toxic Substances and Disease Registry. She was a member of the Occupational Safety and Health Study Section of the National Institute of Occupational Safety and Health for over 12 years and continues to serve as ad-hoc consultant to this panel.

Morris,Marilyn

University at Buffalo, State University of New York

Dr. Morris is Distinguished Professor and Vice-Chair in the Department of Pharmaceutical Sciences, School of Pharmacy and Pharmaceutical Sciences University at Buffalo, State University of New York. She received her B.Sc. (Pharmacy) from the University of Manitoba, Canada, M.Sc. (Pharmacology) from the University of Ottawa, Canada, and Ph.D. (Pharmaceutics) from the University at Buffalo. She was a Medical Research Council Fellow at the University of Toronto, Canada, before joining the University at Buffalo as an Assistant Professor. Her NIH-funded research focuses on the influence of drug transporters on drug pharmacokinetics and pharmacodynamics and the identification of transporters as therapeutic targets. Her current researchfocuses on monocarboxylate transporters. Earlier work, most relevant for the EPA, was research on inorganic sulfate membrane transport and homeostasis. Additionally, she has been funded through the University at Buffalo Center for Protein Therapeutics for a number of years for studies evaluating determinants of the disposition of monoclonal antibodies and the effect of disease on protein therapeutics. Her overall research contributions have been recognized through the presentation of a number of awards including the State University of New York Chancellor's award for excellence in research and creative activities, a Francis Dudley Meyer Award for Breast Cancer Research, Cancer Research and Prevention Foundation, and election as a Fellow of the American Association of Pharmaceutical Scientists and Fellow of the American Association for the Advancement of Science. She was the recipient of the Faculty of Pharmacy University of Manitoba Distinguished Alumni 2013 award and the University at Buffalo Distinguished Postdoctoral Mentor Award in 2012. Dr. Morris has provided significant contributions to the Pharmaceutical Sciences through her role as elected President of the American Association of Pharmaceutical Sciences (AAPS) 2012-15. She currently serves as Past-President. She has served since 2006 on the Food and Drug Administration (FDA) Advisory Committee in the Pharmaceutical Sciences and Clinical Pharmacology, as well as on National Institutes of Health and other grant review and advisory panels. She is currently an elected member on the Executive Committee of the Board of Pharmaceutical Sciences for the International Federation of Pharmacy (FIP). Dr. Morris is an Associate Editor for the AAPS Journal.

Parrish,Alan

University of Missouri

Dr. Parrish is currently an Associate Professor and Vice Chair for Education in the Department of Medical Pharmacology and Physiology at the University of Missouri School of Medicine. He received his Ph.D. in Toxicology from Texas A&M University under the guidance of Dr. Kenneth Ramos and did his post-doctoral training with Dr. Jay Gandolfi at the University of Arizona. Dr. Parrish began his academic career in 1999 at the Texas A&M College of Medicine, was awarded tenure in 2005, and remained at A&M until 2010, when he moved to the University of Missouri. He is a member of the American Physiological Society, the American Society for Nephrology and the Society of Toxicology. Dr. Parrish has been an ad hoc member of several NIH study sections, and has also reviewed grants for the American Heart Association, Veterans Administration Nephrology panel, American Diabetes Association and the Oklahoma Center for the Advancement of Science and Technology. He has also served on a Toxicology Excellence for Risk Assessment panel for the review of acrylonitrile. His research is focused on identifying mechanisms linked to the increased susceptibility and severity of acute kidney injury in the aging kidney; his research has been supported by the NIH and other extramural sources. His team was among the first to identify cell adhesion molecules as important molecular targets of nephrotoxicants and has more recently elucidated several pathways downstream of adhesion molecules that influence the injury and repair response in the kidney. He has authored over 70 manuscripts and 5 book chapters and has trained 6 Ph.D students and several post-doctoral fellows.

Pennell,Michael

Ohio State University

Dr. Pennell is an Associate Professor of Biostatistics in the College of Public Health at The Ohio State University. Prior to joining the faculty at Ohio State, Dr. Pennell received his PhD in Biostatistics from the University of North Carolina at Chapel Hill and was both a predoctoral and postdoctoral trainee at the National Institute of Environmental Health Sciences. Dr. Pennell also holds a B.S. in Biology from the University of Puget Sound in Tacoma, Washington. His research interests are in Bayesian nonparametric and Bayesian survival analysis methods motivated by applications in toxicological risk assessment. He has published his research in top-tier biostatistical journals including Biometrics and Statistics in Medicine. Dr. Pennell collaborates with investigators in cancer prevention, biomedical informatics, cardiology, and veterinary medicine at Ohio State and over the last two years he has been funded as a Co-Investigator on grants from the National Cancer Institute, Breast Cancer Research Foundation, and National Heart, Lung, and Blood Institute. For the past nine years he has taught a unit on dose-response assessment in the Principles of Risk Assessment course at Ohio State. Dr. Pennell has also been heavily involved in professional service in the field of risk analysis serving as an Associate Editor of the journal Lifetime Data Analysis for the past two years and the Program Chair for the Section on Risk Analysis of the American Statistical Association for the 2016 Joint Statistical Meetings. He has also served on two EPA Scientific Advisor Board review panels: Trichloroetylene (2010) and Libby Amphibole Asbestos (2012).

Persky,Victoria

University of Illinois at Chicago

Dr. Victoria Persky is a Professor of Epidemiology in the School of Public health, University of Illinois at Chicago. She received her undergraduate degree from Radcliffe College, M.D. from Albert Einstein College of Medicine and completed residencies in Internal Medicine at the University of Alabama in Birmingham, Montefiore Hospital in New York and Northwestern University Medical School. In addition to her epidemiology research, she practiced medicine part time for 30 years in a community-based health center on the Westside of Chicago. For the last 20 years, her research focus has been in environmental epidemiology with a major focus on the endocrine effects of organochlorines. Currently, she is Principal Investigator or Co-investigator of grants examining the effects of community-based interventions on morbidity from asthma and associations of organochlorines with endogenous hormones and components of the metabolic syndrome. She is a past member of the National Institutes of Health (NIH) Infectious, Reproductive, Asthma and Pulmonary conditions (IRAP) epidemiology study section and is currently a member of the Board of Mobile C.A.R.E. foundation, the Environmental Justice Journal Editorial Board, the Illinois State Board of Health, and the EPA Science Advisory Board (SAB) Chemical Assessment Advisory Committee (CAAC).

Pessah,Isaac

University of California, Davis

Isaac Pessah obtained his B.S. in Biological Sciences from Cornell University and his Ph.D. in Toxicology from the University of Maryland College Park in 1984 under the mentorship of Professor Robert Menzer. He pursued postdoctoral training at UC Berkeley from 1984 to 1987 during which time he discovered a family of calcium channels termed ryanodine receptors. Since then, his research and academic interests have spanned the broad area of molecular and cellular mechanisms by which Ca2+ channels regulate cellular signaling in muscle, neurons, and immune cells. He studies the organization and function the macromolecular complexes regulating ryanodine-sensitive Ca2+ channels and how marine toxin (e.g. bastadins and xestospongins) and environmental chemicals (e.g. PCBs, PBDE's, pyrethroids) promote toxicity. Members of his laboratory have been studying gene-environment interactions influencing susceptibility that are relevant to autism and related developmental disorders using humanized mice possessing mutations known to contribute susceptibility to disease. He received the Pfizer Award for Research Excellence in 1997 and the Neurobehavioral Toxicology Society's Distinguished Lecture Award in 2010. Dr. Pessah is a member of the UC Davis Superfund Research Program, Society of Toxicology and Neurotoxicology Specialty Section, the American Chemical Society and Pesticide Toxicology Specialty Section, the American Society for Pharmacology and Experimental Therapeutics, the Biophysical Society, and International Neurotoxicology Association. He is on the editorial board of several journals. Currently he is Professor of Toxicology and in the Department of Molecular Biosciences, and Associate Dean of Research and Graduate Education at UC Davis School of Veterinary Medicine. He is Deputy Director of the UC Davis Center for Children's Environmental Health and Disease Prevention. The Center, established under his direction in 2000, is an NIEHS/US EPA funded multidisciplinary program aimed at understanding how environmental factors influence developmental neurotoxicity. Recently he has been appointed by Governor Brown to serve on the California Developmental and Reproductive Toxicant Identification (DART) Committee. His laboratory provides a truly unique opportunity for training graduate students and postdocs interested in developing strong interdisciplinary research experience that implement basic biophysical, chemical, and cellular physiological methods to answer important questions about etiological factors contributing to developmental disorders. I have been PI or Co-PI on 14 major multi-year NIH grants from several institutes (NIEHS, NIAMS, NICHD, NIA, and NINDS), most of which have been successfully renewed at least once. He have successfully mentored 18 PhD students and 18 postdoctoral fellows, which have gone on to successful careers in academia, as well as leadership positions in industry and government. His research addresses the causes, consequences, prevention, and treatment of neurodevelopmental disorders, especially in the area of susceptible populations and gene by environment interactions. His research program has had important translational implications for understanding gene environment interactions that promote human and animal disorders of the nervous system. Dr. Pessah has co-authored more than 200 peer reviewed primary research publications and several reviews and book chapter.

Portier,Kenneth M.

American Cancer Society

Dr. Kenneth M. Portier is Vice President of the Statistics & Evaluation Center at the American Cancer Society (ACS) home office in Atlanta, GA, and is Affiliate Professor of Biostatistics in the School of Public Health, Emory University. A native of south Louisiana, Dr. Portier holds a B.S. in Mathematics from Nicholls State University in Thibodaux, Louisiana (1973), and an M.S. in Statistics (1975) and Ph.D. in Biostatistics (1979) from the University of North Carolina, Chapel Hill. With ACS since early 2006, he provides general statistical support on design and analysis of cross-sectional and longitudinal sample surveys, program evaluation and cancer modeling. Prior to ACS Dr. Portier spent 27 years as a statistical consultant to researchers in agriculture, natural resources and the environment and as a teacher of applied statistics at the graduate level at the University of Florida. He has coauthored over 170 publications in many of the premier journals in agriculture, natural resources and environmental sciences. Dr. Portier has received national recognition for his teaching and twice participated in U.S. Department of Agriculture (USDA)-funded teaching grants, one on new methods for teaching natural resources sampling and the other to develop a study abroad course in natural resources assessment with the Czech Republic. His collaborations with other researchers at UF resulted in 36 funded research grants from numerous agencies and private companies, with core research support being from the federal government (National Science Foundation (NSF), USDA, U.S. National Oceanic and Atmospheric Administration (NOAA), U.S. Environmental Protection Agency (EPA), and the U.S. Department of the Interior). Dr. Portier continues to collaborate with UF's Center for Environmental and Human Toxicology on statistical questions that arise in environmental sampling and risk assessments. He has participated in over 60 Federal Insecticide,

Fungicide, and Rodenticide Act (FIFRA) Scientific Advisory Panel (SAP) meetings since 1999 and five EPA Science Advisory Board science review panels. In addition, Dr. Portier has served on expert and advisory panels for the National Institutes of Health (NIH), National Institute of Environmental Health Sciences (NIEHS), the National Toxicology Program (NTP), and the World Health Organization Food and Agriculture Organization (WHO/FAO). He has recently been appointed to the EPA Science Advisory Board and will be chair of the newly chartered EPA Chemical Safety Advisory Committee. His research interests are wide, including the application of new statistical methodologies to cancer research and environmental health.

Ramos,Kenneth

University of Arizona

Dr. Kenneth Ramos is Associate Vice President for Precision Health Sciences and Professor of Medicine at the University of Arizona Health Sciences Center. He also serves as Director of the Center for Genetics and Genomic Medicine. He is a leading expert in the study of gene-environment interactions and personalized and genomic medicine. A major focus in his laboratory is the elucidation of molecular mechanisms of reactivation of mammalian retroelements and their role in reprogramming the human genome. Dr. Ramos completed a B.S. in Pharmaceutical Sciences and Chemistry (Magna Cum Laude) at the University of Puerto Rico, a Ph.D. in Biochemical Pharmacology at the University of Texas at Austin, and an M.D. degree with postgraduate training in Internal Medicine at the University of Louisville Health Sciences Center. He previously held faculty positions at the University of the Sciences in Philadelphia, Texas Tech University Health Sciences Center, Texas A&M University and the University of Louisville School of Medicine. He is currently affiliated with the Arizona Respiratory Center, Arizona Cancer Center and BIO5 Institute. Dr. Ramos is a recipient of the Society of Toxicology Achievement Award, Astra Zeneca Traveling Lectureship Award and Distinguished Service Award from the American Heart Association. He was named Associate of the National Academy of Sciences and Fellow of the Academy of Toxicological Sciences. His recent sources of grants include the National Institute of Environmental Health Sciences, the National Cancer Institute, Astra Zeneca, and the Kentucky Lung Cancer Research Program. He has published over 250 peer-reviewed publications and served on numerous national and international committees in the areas of environmental health sciences, genomics, molecular medicine and toxicology.

Reddy,Samba

Texas A&M University

Dr. Samba Reddy is a Professor of Neuroscience and Experimental Therapeutics at the Texas A&M University, College of Medicine. Dr. Reddy is a faculty member of the Texas Brain & Spine Institute and Texas A&M Institute for Neuroscience. He is the principal investigator of an NIH CounterACT U01 project focusing on novel treatments for organophosphate chemical intoxication. Dr. Reddy earned a BS in pharmacy, MS in pharmacology, and Ph.D. in neuropharmacology from Panjab University and completed post-doctoral training in epilepsy at the National Institutes of Health (NIH). Dr. Reddy directs research projects on new drug development for brain disorders, particularly epilepsy, status epilepticus, epileptogenesis, brain injury, and chemical neurotoxicity. He has been continuously funded by the NIH for over 12 years and runs a productive research laboratory. Dr. Reddy was instrumental in discovering many preclinical models, mechanism-based treatment strategies, and novel medicines for complex brain disorders. Dr. Reddy has published over 150 papers and book chapters. He has given over 100 seminars and co-authored over 260 presentations worldwide. He teaches both medical and graduate courses on human pharmacology and pharmacodynamics and has mentored 30 doctoral and postdoctoral trainees. Dr. Reddy has served as a member/ chair in many scientific panels, editorial boards, government agencies, and NIH study sections. He serves on the US DOD medical research program review panel and has been a delegate member of the U.S. Pharmacopoeia since 2001. Dr. Reddy has received many awards and honors for research excellence. He is an elected Fellow of both the American Association of Pharmaceutical Scientists (AAPS) and the American Association for the Advancement of Science (AAAS), which is the world's largest scientific society and publisher of the journal Science.

Rhomberg,Lorenz

Gradient

Lorenz R. Rhomberg, Ph.D. Fellow ATS, is a Principal at Gradient, an environmental consulting firm based in Cambridge, Massachusetts, where he specializes in critical review of toxicological information, weight-of-evidence evaluation, human health risk assessment, quantitative risk analysis, and science policy issues for environmental and consumer chemical exposures. He is a member of several scientific societies, including the Society for Risk Analysis,

for which he served as a Councilor from 2002-2004, and as President of the New England Chapter in 1997-1998, as well as the Society of Toxicology, serving as a Councilor of the Risk Assessment Specialty Section from 2003-2005 and Councilor for the Regulatory and Safety Evaluation Specialty Section from 2012-2014. Before joining Gradient in 1999, he was on the faculty of the Harvard School of Public Health. From 1984-1994 he was a risk assessor at the U.S. Environmental Protection Agency in Washington. Dr. Rhomberg earned his Ph.D. in population biology from the State University of New York at Stony Brook and an Honours B.Sc. in biology from Queen's University in Ontario. In 2009, Dr. Rhomberg was named Outstanding Risk Practitioner of the Year by the Society for Risk Analysis, and in the same year was named a Fellow of the Academy of Toxicological Sciences. He has served on seven committees convened by the National Academy of Sciences, two as chair. For the U.S. EPA, he served on several FIFRA Scientific Advisory Panels and on chemical assessment peer review groups, including the 2000 EPA Dioxin Peer Review panel and the recent 2009 public meeting on reassessment issues. He currently sits on the Chemical Assessment Advisory Committee of the US Environmental Protection Agency's Science Advisory Board.

Roberts,Stephen M.

University of Florida

Dr. Stephen M. Roberts is Professor at the University of Florida with joint appointments in the College of Veterinary Medicine, College of Medicine, and College of Public Health and Health Professions. He also serves as Director of the Center for Environmental & Human Toxicology at the University of Florida. Dr. Roberts received a B.S. in Pharmacy from Oregon State University and a Ph.D. from the University of Utah College of Medicine. After a postdoctoral fellowship at SUNY Buffalo (1977 – 1980), he served on the faculties of the University of Cincinnati College of Pharmacy (1980-1985) and the College of Medicine at the University of Arkansas for Medical Sciences (1986-1989). Dr. Roberts has been a faculty member at the University of Florida since 1989. His research addresses mechanisms of toxicity, particularly involving the liver and immune system. Dr. Roberts also has an active research program in toxicokinetics, especially involving bioavailability of environmental toxicants, as well as approaches to evaluation of potential toxicity of nanomaterials. Dr. Roberts' research has been supported by the National Institutes of Health, the Department of Defense, the U.S. EPA, Gulf Power Corporation, and HSF Pharmaceuticals. He serves as an advisor to regulatory agencies on topics related to risk assessment

Rosol,Thomas

Ohio State University

Thomas Rosol, DVM, PhD is a professor of veterinary and toxicologic pathology at The Ohio State University, diplomate of the American College of Veterinary Pathologists and senior advisor for technology commercialization in life sciences at OSU. He has served as dean of the College of Veterinary Medicine and senior associate and interim vice president for research at OSU and on advisory boards to the National Institutes of Health, United States Department of Agriculture, American Veterinary Medical Association, and Morris Animal Foundation. Rosol serves as a consultant for industry in preclinical safety and toxicology in the areas of endocrine, bone, and reproductive pathology and animal models of cancer. The Rosol laboratory investigates the pathogenesis of animal models of human cancer, mechanisms and treatment of bone metastasis, and endocrine-responsive cancers, and has been funded by NIH for 30 years. Recent work focuses on prostate, breast, head and neck cancer, and lymphoma. Rosol has over 280 publications (H-index 47) and served as the mentor for 23 PhD students and 20 postdoctoral trainees. The laboratory specializes in molecular investigations and mouse and dog in vivo studies using state-of-the-art imaging using bioluminescence, microCT, high resolution ultrasound, MRI, and PET. Rosol is a fellow of the American Association for the Advancement of Science and was recognized by Ohio State University as a Distinguished Scholar, which is one of the universities' highest honors. In 2015, Rosol was awarded the Annual Distinguished Mentor Award from the Society of Toxicologic Pathologists.

Skoglund,Robert

Independent Consultant

Dr. Skoglund is a toxicologist, environmental chemist, and industrial hygienist. He is presently a Senior Laboratory Manager at the 3M Company in St. Paul, Minnesota, and is responsible for the science-based and globally consistent assessment and communication of the hazards and risks of materials important to 3M. In addition he serves as an Adjunct Professor at the University of Minnesota, where he teaches and advises students in both the Toxicology Graduate Program and the School of Public Health's Division of Environmental Health Sciences. Dr. Skoglund has a doctorate and a master's degree in Environmental Health from the University of Minnesota where he specializes in

environmental chemistry and toxicology, is board-certified in both general toxicology by the American Board of Toxicology and the comprehensive practice of industrial hygiene by the American Board of Industrial Hygiene, and has over twenty-five years of experience in regulatory and applied toxicology. Areas of expertise include the assessment and communication of the physical, health, and environmental hazards and risks of consumer and industrial products and their manufacturing processes. Areas of limited research and teaching include the incorporation of advances in toxicology testing and risk analysis into the assessment of materials within a global legislative and regulatory framework and the science-based assessment of sustainable or green products. Dr. Skoglund is presently active, through technical, advocacy, governing, and advisory boards, in professional organizations including the Society of Toxicology, the American Industrial Hygiene Association, and the Society for Chemical Hazard Communication, and trade organizations, including the Consumer Specialty Products Association and the American Chemistry Council. Dr. Skoglund presently serves on the Advisory Board for the NIEHS Midwest Consortium for Hazardous Waste Worker Training. In the past he served as a US industry representative to the Coordinating Group for the Harmonization of Chemical Classification Systems during the development of the United Nations' Globally Harmonized System of Classification and Labelling of Chemicals (GHS), as well as at the European Commission's REACH Implementation Projects (RIP) during the development of their guidance, including RIP 3.2: Chemical safety reports and safety data sheets and RIP 3.3: Information requirements on intrinsic properties of substances.

Spanggord,Ronald

SRI International

Dr. Spanggord has a Ph.D. in organic chemistry from the University of Arizona. He has worked at SRI International for 44 years, performing research studies for government and industry, studied the mammalian and aquatic toxicology of RDX, its environmental fate, microbial metabolism, as well as those of other military-unique chemicals. Dr. Spanggord's research activities include a program funded by the Defense Advanced Research Program Agency (DARPA) to destroy chemical agents in a fluidized bed reactor and trap resulting acids in a soil matrix (2015 – present). He was also the assistant project leader for a project with Walter Reed Army Institute of Research, characterizing new drugs and drug formulations designed to fight tropical diseases (1997-2012). Dr. Spanggord was a member of the National Academy of Sciences Committee onToxicology (1982-1985).

Stayner,Leslie T.

University of Illinois

Dr. Stayner is currently a Professor of Epidemiology at the University of Illinois' School of Public Health in Chicago (UIC SPH). He is also Director of the Occupational and Environmental Epidemiology Program and was formerly the Director of the Division of Epidemiology and Biostatistics at UIC SPH. He also previously worked at the National Institute for Occupational Safety and Health in Cincinnati for nearly 25 years and in his last position was the Chief of their Risk Evaluation Branch. He has been a Visiting Scientist with the International Agency for Research on Cancer (IARC) in Lyon France and has participated in numerous of their monograph meetings. He received a M.S. in Epidemiology and Occupational Health and Safety in 1980 from the Harvard School of Public Health and his PhD in Epidemiology from the University of North Carolina at Chapel Hill in 1989. His major research interests are in the area of occupational and environmental epidemiology with a primary focus on carcinogenic hazards, and on the development of epidemiologic methods. He has been involved in conducting research on cancer and exposure to asbestos, 1,3-butadiene, formaldehyde, diesel exhaust, hexavalent chromium, cadmium, silica and ethylene oxide. He has served as an advisor to numerous agencies including ATSDR, EPA, NRC/IOM, OSHA, MSHA and the WHO. He is currently engaged in a CDC funded study to examine the potential association between exposures to atrazine and nitrates in drinking water and the rate of adverse pregnancy outcomes and childhood cancer in eight Midwestern states.

Stern,Alan

New Jersey Department of Environmental Protection

Dr. Alan H. Stern is the Bureau Chief for Risk Analysis in the Office of Science of the New Jersey Department of Environmental Protection; Adjunct Associate Professor in the Department of Environmental and Occupational Health of the Rutgers University School of Public Health. He received a bachelor's degree in biology from the State University of New York at Stony Brook (1975), a master's degree in cellular and molecular biology from Brandeis University (1978), a master of public health degree (1981) and a doctorate in public health from the Columbia University School of Public Health (1987). Dr. Stern is board-certified in toxicology by the American Board of

Toxicology (Diplomate of the American Board of Toxicology). Dr. Stern's areas of expertise include risk assessment and exposure assessment including the application of probabilistic techniques to quantitative estimation of exposure and risk. His research interests have focused on heavy metals including lead, mercury, chromium and cadmium as well as on risk and benefit from fish consumption. Dr. Stern is currently a member of the Chemical Assessment Advisory Standing Committee of the USEPA's Science Advisory Board. Dr. Stern was a member of the National Research Council/National Academy of Sciences Committee on the Toxicology of Methylmercury (1999-2000) and an invited panel member of the USEPA IRIS Workshop on the NRC Recommendations (October 15-16, 2014), the USEPA Science Advisory Board panel for the National-Scale Mercury Risk Assessment for Coal- and Oil-Fired Electrical Generating Units (June-July 2011) as well as the USEPA Science Advisory Board Panel for Peer Review of the All-Ages Lead Model (Oct. 27-28, 2005). He has also served on numerous USEPA-IRIS review panels including Toxicological Review of Urea (Dec. 13, 2010, Panel Chair), Toxicological Review of Trichloroacetic Acid (Dec. 10, 2009, Panel Chair), Toxicological Review of 2-Hexanone (May 22, 2008, Panel Chair), Toxicological Review of Toluene (Feb. 5, 2004, Panel Chair). Other panels, committees and workshops include, ATSDR Toxicological Profile Review of Revised Minimal Risk Levels (MRLs) for 1,4-Dioxane (March-April, 2010), ATSDR Toxicological Profile Review of Revised Inhalation MRL for 1,4-dioxane (Sept. 2011),.USEPA Panel for the Review of Draft Exposure Factors Handbook (March 3-4, 2010), USEPA Workshop on Cardiovascular Toxicity of Methylmercury (Jan. 12-13, 2010), USEPA Panel for Review of "Draft Child-Specific Exposure Factors Handbook" (Sept. 19-20, 2007. Dr. Stern has authored numerous articles in peer-reviewed journals, and contributed a book chapter on Exposure Assessment for Neurotoxic Metals in "Human Developmental Neurotoxicology" D. Bellinger, ed. (Taylor & Francis, New York, 2006), and the article on "Environmental Health Risk Assessment" in the Encyclopedia of Quantitative Risk Assessment and Analysis, John Wiley and Sons Ltd., 2008.

Turesky,Robert

University of Minnesota

Dr. Robert Turesky is a Professor in the Department of Medicinal Chemistry, and Director of the Masonic Cancer Center's Analytical Biochemistry shared resource, a mass spectrometry facility devoted to the cancer and chemoprevention programs at the University of Minnesota. Dr. Turesky received his B.Sc. in biochemistry from the University of Massachusetts, Amherst, and PhD in nutrition and food science from M.I.T. Prior to this position, Dr. Turesky was Group Leader of the Biomarkers Unit, Nestlé Research Center, Lausanne, Switzerland (1986 – 2000); Division Director of Chemistry, National Center for Toxicological Research, U.S. Food and Drug Administration, Jefferson, AR, (2000 – 2004); and Principal Investigator, Wadsworth Center, New York State Department of Health (2004 – 2013). He has been continuously funded by NIH for the past decade. His research is focused on the biochemical toxicology of dietary and environmental genotoxicants. Biomarkers of these genotoxicants, such as urinary metabolites, protein- and DNA adducts are established and state-of-the-art mass spectrometric methods are applied to measure these biomarkers in collaborative molecular epidemiology studies that seek to understand the role of chemical exposures in the etiology of cancer. Biomarker endpoints include urinary metabolites, and toxicant adduct products to DNA and circulating blood proteins. Novel techniques are being developed to identify DNA adducts of carcinogens, by MS-based technologies, in formalin fixed paraffin embedded tissues and exfoliated urinary cells, two largely underutilized biospecimens in cancer biomarker research. These bioanalytical mass spectrometric-based approaches will significantly advance our knowledge about chemicals that damage protein and DNA and may be contributing factors to the etiology of cancer and other diseases. Dr. Turesky has authored 175 peer-reviewed papers, book chapters and Monographs. He has served on a number of editorial and review boards for scientific journals, government agencies, health organizations. He has served on grant review committees for NIH, other international health institutes and charitable funding organizations. He was chosen as Distinguished Foreign Scientist, Japanese Journal of Cancer Research 89 (1998); appointed as Senior Biological Research Scientist, United States Food and Drug Administration (2000); received the Division Director's Award, National Center for Toxicological Research, US FDA, for scientific excellence in research and management (2002); and Elected to Senior Health Research Services, Wadsworth Center, New York State Department of Health (2004).